

W·I·N·G·S·P·A·N

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Karen Steenhof, Editor

Kay Sundberg, Editorial Assistant

SPOTTED OWLS: THE CONTROVERSY CONTINUES....

Ed's Note: The Raptor Research Foundation sponsored a symposium on Spotted Owls at its 1992 annual meeting in November. Several outstanding speakers informed RRF members about recovery efforts and litigation concerning the Spotted Owl. The Wingspan would like to make readers aware of 3 significant actions regarding Spotted Owl protection and management that have taken place within the past month.

On 11 February 1993, the Thurston County Superior Court issued a temporary restraining order sought by the Washington Department of Wildlife (WDOW). The WDOW had initiated a civil suit in January, challenging the validity of a new state forest practice rule. WDOW requested a restraining order to prevent the Washington Department of Natural Resources from issuing permits under the new rule for logging around known spotted owl sites on state and private lands. The new rule, which went into effect on 1 December 1992, provided protection for only 15% of the habitat typically used by a Spotted Owl pair in the Cascade Range and only 10% of the habitat typically used by a Spotted Owl pair on the Olympic Peninsula. The new rule also put landowners at risk of unintentionally violating the Endangered Species Act. The Court found that the new rule "is likely not based upon a consideration...of scientific or biologic evidence. As such the rule is not consistent with [the state's Forest Practices Act] and therefore exceeds the statutory authority of the agency". The Court also found that "there is certainly evidence in the record to conclude that without relief the applicant,[WDOW], acting on its responsibility to preserve the species of Northern Spotted Owl, will suffer irreparable injury without this temporary relief". The rule had been adopted by the state's Forest Practices Board without the environmental review required by the Washington State Environmental Policy Act.

In a separate action in mid-February, the 9th circuit court of appeals ordered a hearing as to whether the Bush Administration had exercised improper political pressure on members of the "God Squad." An appeal by environmental groups contended that the White House had acted improperly in encouraging God Squad members to exempt 13 BLM timber sales from consideration under the Endangered Species Act. The court's action, a response to the environmentalists' appeal, is considered a major development in Spotted Owl protection efforts.

Finally, Bruce Babbitt, the new Secretary of the Interior announced in February that the Mexican Spotted Owl will soon be listed officially as a threatened species.



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RRF ELECTION UPDATE

At the 1992 business meeting in Seattle, RRF members voted on two by-laws changes. A proposal to allow the general membership to elect presidents and vice-presidents passed, and a proposal to limit the number of terms a president can serve failed. Later, a review of the existing by-laws indicated that neither of those votes was binding. The existing RRF by-laws clearly state that amendments can be made to by-laws only after written notice of the proposed amendment changes (and ballots) are sent to each RRF member not less than 20 days prior to the vote.

Because there had been no mailing, the votes were invalid, and the RRF Board of Directors needed to elect a new vice-president and president-elect. In a mail-in vote late in December 1992, the Board named **Mike Collopy** as president-elect, and **David Bird** as vice-president.

The proposed by-law amendments have been re-drafted and are currently being reviewed by the RRF Officers. Basically the proposal is that the general membership (not the Board of Directors) will elect a president and vice-president every 2 years. There will be no separate election for president-elect. The person elected as president will serve 1 year as president-elect followed by 2 years as president. At the end of a president's term, he/she will serve as past president and be an ex-officio member of the board for 4 years; during that 4-year period the past president cannot hold any other position on the board. Plans are for all RRF members to vote by ballot on these proposed changes before the Annual Meeting in North Carolina. If approved, the first general election of president and vice-president will take place in spring of 1994.

THE RAPTOR RESEARCH FOUNDATION, INC. (FOUNDED 1966)

PRESIDENT: Richard J. Clark
VICE-PRESIDENT: Michael W. Collopy

SECRETARY: Betsy Hancock
TREASURER: Jim Fitzpatrick

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INTERNATIONAL DIRECTOR #2: Isabel Bellocq

The *Wingspan* is distributed twice a year to all RRF members. It is also available to non-members for a subscription rate of \$10 per year. *The Journal of Raptor Research* (ISSN 0892-1016) is published quarterly and available to individuals for \$24.00 per year and to libraries and institutions for \$30.00 per year from *The Raptor Research Foundation, Inc., 12805 St. Croix Trail, Hastings, Minnesota 55033, U.S.A.* Add \$3 for destinations outside of the continental United States.

Persons interested in predatory birds are invited to join The Raptor Research Foundation, Inc. Send requests for information concerning membership, subscriptions, special publications, or change of address to *Jim Fitzpatrick, Treasurer, 12805 St. Croix Trail, Hastings, Minnesota 55033, U.S.A.*

RAPTOR RESEARCH PUBLICATIONS AVAILABLE

	Member Price *****	Non-Member Price *****
<input type="checkbox"/> Raptor Research Report #1, Olendorff, R.R. 1971 <i>Falconiform Reproduction: A Review Part 1. The Pre-nestling Period.</i>	\$10.00	\$12.50
<input type="checkbox"/> Raptor Research Report #2, Hamerstrom, F.N., B.E. Harrell and R.R. Olendorff, editors. 1974 <i>Management of Raptors: Proceedings of the Conference on Raptor Conservation Techniques, Fort Collins, CO 22-24 March 1973. (Part 4)</i>	\$10.00	\$12.50
<input type="checkbox"/> Raptor Research Report #3, Murphy, J.R., C.M. White and B.E. Harrell, editors. 1975 <i>Population Status of Raptors: Proceedings of the Conference on Raptor Conservation Techniques, Fort Collins, CO 22-24 March 1973. (Part 6)</i>	\$10.00	\$12.50
<input type="checkbox"/> Raptor Research Report #4, Olendorff, R.R., A.D. Miller and R. N. Lehman, editors. 1981 <i>Suggested Practices for Raptor Protection on Powerlines: State of the Art in 1981.</i>	\$ 5.00	\$20.00
<input type="checkbox"/> Raptor Research Report #5, Senner, S.E., C.M. White and J.R. Parrish, editors. 1986 <i>Raptor Research Conservation in the Next Fifty Years: Proceedings of a Conference held at Hawk Mountain Sanctuary, Kempton, PA, 14 October 1984.</i>	\$ 3.50	\$ 4.50
<input type="checkbox"/> Raptor Research Report #6, Bird, D.M. and R. Bowman, editors. 1987 <i>The Ancestral Kestrel: Proceedings of a Symposium on Kestrel Species, St. Louis, MO. 1 December 1983.</i>	\$10.00	\$12.50
<input type="checkbox"/> Raptor Research Report #7, Olendorff, R.R., editor. 1989 <i>The Raptor Research Foundation, Inc. Bibliographic Index (1967-1986).</i>	\$ 2.50	\$ 5.00
<input type="checkbox"/> Raptor Research Report #8, Olendorff, R.R., D.D. Bibles, M.T. Dean, J.R. Haugh and M.N. Kochert. 1989 <i>Raptor Habitat Management under the U.S. Bureau of Land Management Multiple-Use Mandate.</i>	\$ 5.00	\$ 6.50
<input type="checkbox"/> <i>Biology and Management of Bald Eagles and Ospreys: Proceedings of the first International Symposium, Montreal, Canada.</i> Bird, D.M., editor. 1983	\$15.00	\$18.00

Please include \$2.50 for postage and handling charges for the first publication and \$1.00 for each additional publication. All items will be mailed first class or international surface mail. Please allow up to six weeks for delivery overseas. Please send orders to: *Jim Fitzpatrick, Treasurer, Raptor Research Foundation, Inc., 12805 St. Croix Trail, Hastings, Minnesota 55033.*

ORGANIZATION

AVIAN SCIENCE AND CONSERVATION CENTRE



The faculty and resource- A pedigree colony of approximately 300 American Kestrels (*Falco*

sparverius) is maintained on the Macdonald Campus of McGill University. Housing consists of 90 outdoor breeding pens, 10 large wintering pens for 30 birds apiece, 20 large flight pens for research, 10 indoor breeding cages, and 50 small holding cages for single birds. Artificial incubation of several hundred eggs and hand-rearing of up to 200 young, respectively, can be accomplished in two tiled, temperature-controlled rooms. There is a large laboratory fully equipped with basic equipment, as well as a small remote laboratory for taking blood samples, banding birds, etc. A mobile trailer has been established to house the staff administering and caring for the colony. There is a meeting room and desks available for visiting scientists, students, and interns, as well as the standard machines, e.g. FAX, photocopier, desk computers, telephones, etc. Nearby is easy access to the campus library and mainline computer.

The American Kestrel has proven to be a valuable laboratory research animal mainly due to its small size, i.e., 120 g, and its willingness to breed in captivity under varied

conditions. Only one other colony exists in the world: the Patuxent colony maintained by the U.S. Fish & Wildlife Service strictly for in-house toxicology research. Hence, the McGill colony with its large size, broad research interests and availability to outside users is virtually a unique facility in the world.

The centre also maintains a modest colony of Peregrine Falcons (*F. peregrinus*) for release purposes, and has just recently initiated a colony of Loggerhead Shrikes (*Lanius ludovicianus*) for captive propagation and research.

Some selected research projects currently ongoing-

PARASITOLOGY: effect of *Trichinella pseudospiralis* infection on mate choice and territorial competition in captive American Kestrels. Effects of *Trichinella pseudospiralis* infection on predatory behavior of American Kestrels.

ENDOCRINOLOGY: effect of diet on growth hormone levels in kestrels. Relationship of season lutenizing hormone levels on sexual maturity of kestrels. The role of testosterone in spermatogenesis in birds of prey.

TOXICOLOGY: influence of fluorosis on male reproductive function in kestrels. Synergistic and antagonistic effects of

aluminum and fluoride in kestrels. Impact of dicofol and second generation poisoning on kestrel reproductive performance. Impact of fenthion on hunting ability of kestrels. Patterns of blood and brain cholinesterase development in kestrel nestlings.

PHYSIOLOGY: stereopsis in falcons. Ocular accommodation in precocial and semi-altricial birds. Anatomical and biochemical characterization of changes during growth and development of kestrels.

NUTRITIONAL ECOLOGY: food consumption and reversed size dimorphism in raptors. Effects of diet on cholesterol levels in raptors. **GENETICS:** heritability of egg size in captive kestrels. Heritability of reversed size dimorphism in kestrels. Heritability of voice signatures in kestrels.

BEHAVIORAL ECOLOGY: sibling competition and evolution of sex ratio in kestrels. Variation in hatching time and embryonic growth in kestrels. Extra-pair copulations and paternity in wild kestrels. Copulatory behavior in solitary versus colonial nesting wild kestrels.

HUSBANDRY: influence of feeding frequency and day-old cockerels versus mice on growth patterns of kestrels. Body composition in kestrels raised on mice versus cockerels. Evaluation of A-1, a commercial dietary

PROFILES

CENTER FOR THE STUDY OF TROPICAL BIRDS, INCORPORATED

supplement for raptors. Inbreeding calibration curve for captive kestrels. Genetic drift in captive kestrels.

Summary of use - During the last three years (1989-1992) and including the next three years, the number of people who will have benefitted from research programs (and this number will grow between 1993 and 1996) involving the American Kestrels maintained at the ASCC are as follows: 6 McGill University professors, 16 professors from other universities, 8 scientists from the private sector, 4 government scientists, 1 post-doctoral fellow from Canada, 1 post-doctoral fellow from outside Canada, 15 graduate students from McGill University, 7 graduate students from other Canadian and foreign universities, 2 undergraduate students from McGill University, 3 undergraduate students from other Canadian and foreign universities, 2-5 NSERC summer students from McGill University, 28 student interns for summer training, and 6-10 CEGEP "stage" students for training.

In just the last three years, the kestrel colony of the Avian Science and Conservation Centre has been used as a basis for 18 refereed papers, 9 submitted mss to refereed journals, 7 M.Sc. theses, and 3 Ph.D. theses. Interns in 1991 and 1992 have hailed from Germany, England, Czechoslovakia, Mexico, Spain, Canada, and the U.S. For more information, contact *Dr. David M. Bird, Director, ASCC, Macdonald Campus of McGill University, 21,111 Lakeshore Road, Ste. Anne de Bellevue, Quebec H9X 3V9, (514) 398-7760; 398-7983 FAX.* ■

Members of RRF may remember the Center for the Study of Tropical Birds (CSTB) from their group's sponsorship (in addition to Western Foundation of Vertebrate Zoology, Wildlife Conservation International, and the International Council for Bird Preservation) of the Harpy Eagle poster commemorating the 1989 meeting of RRF in Veracruz, Mexico. In fact the organization's logo, the King Vulture, is widely known throughout Latin America with over 6,000 raptor educational posters in English, Spanish and Dutch being circulated throughout the region.

Only a small portion of the Center's program involves birds of prey. Such projects for 1993 are listed below:

1994 Neotropical Eagles Calendar - Solitary, Isidor's, Crested and Harpy eagles and Black & White Hawk-eagles are captured in full color by some of the countries' premier wildlife photographers. One hundred percent of the profits from the sale of this calendar will go to educational programs in Latin America.

Financial support of raptor migration/education in Mexico - A grant of \$30,000 was given to Hawk Mountain Sanctuary to allow continuation of migration and educational efforts in Jalapa, Veracruz, Mexico.

Aerial Censusing of King Vultures in Belize and Honduras - Small aircraft will be used in early 1993 to census King Vultures and Scarlet Macaws in Belize and Honduras,

Central America. This is the second project conducted with Operation

Lighthawk, the volunteer pilot conservation organization. The first involved photographing the Chiquibul Forest Reserve of Belize and the Sabinas River of Tamaulipas, Mexico.

Publications - The director, Jack Clinton-Eitniear of CSTB, serves as the Americas correspondent for *VULTURE NEWS*, a publication of the Vulture Study Group. In addition, a children's book on vultures will be published in early 1993 by Carol Rhoda Press and Lynn Stone.

The Center for the Study of Tropical Birds is a 501 (C) 3 tax-exempt, charitable corporation dedicated to the conservation of tropical bird life through cooperative programs of research, education, and conservation. In addition to birds of prey work, current projects include parrot conservation in Mexico, international workshops on macaws, masked duck conservation in Texas and Mexico, as well as numerous bird conservation projects in Mexico, Central, and South America.

For additional information, write: *CSTB, Inc. 218 Conway, San Antonio, Texas 78209-1716 USA. Fax (512) 828-591 or 1-800-858-CSTB (in Texas only).* ■



RAPTORS IN JEOPARDY

By Geoff Holroyd and Ursula Banasch, Canadian Wildlife Service



Although the definition of endangered species in Canada is similar to that of the USA's (see *Wingspan* 1(1):7), the process of classification and recovery are very different. In Canada, an endangered species is defined as "any indigenous species of fauna or flora that is threatened by imminent extirpation or extinction throughout all or a significant portion of its Canadian range". The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) classifies species based on a status report. COSEWIC's mandate is derived from a "gentlemen's agreement" of the Federal-Provincial Wildlife Directors' meetings, and not on formal legislation. The recovery of endangered wildlife species is the responsibility of the Recovery of Nationally Endangered Wildlife Committee (RENEW). This committee's mandate comes from a Federal-Provincial agreement, approved by wildlife ministers, and includes the recovery of endangered and threatened terrestrial vertebrates to and extends to ensure that no other species are added to the COSEWIC list.

Although no federal legislation exists that protects raptors, they are protected through provincial laws. Federal involvement in raptor conservation is covered under the Canada Wildlife Act (1972), whenever a national concern arises, such as inclusion of a species on the COSEWIC list. Unlike in the U.S.A., raptors in Canada are not included in the Migratory Bird Convention Act of 1917. Raptors were added to the U.S.A.'s Act in 1972 under the Mexico-U.S.A. agreement to protect migratory birds.

Other than CITES (Convention on International Trade in Endangered Species of Wild Flora and Fauna), Canada is not party to any other international agreement that protects raptors in the western hemisphere. Yet most raptors that breed in Canada migrate south, and most winter in Latin America. A Raptor Conservation Strategy for Canada has been proposed to address these and other raptor issues.

The Cooper's Hawk (*Accipiter cooperii*) is listed as vulnerable by COSEWIC. A study of its toxicology is underway (L. Shutt, CWS, Ottawa). Otherwise there is limited information on its status and population trends.

The Ferruginous Hawk (*Buteo regalis*) is listed as threatened. Populations in native habitat in central Alberta, southern Saskatchewan, and Manitoba are increasing with adequate productivity. This species has benefitted from nest platforms on the treeless prairie, but native habitat and its primary prey, the Richardson's ground squirrel (*Spermophilus richardsonii*) are not protected. A recovery plan was approved in 1992.

IN CANADA

The Peale's Peregrine Falcon (*Falco peregrinus pealei*) is listed as vulnerable. Its population appears stable but below historic levels. Its primary prey, seabirds, are less abundant than historically.

The Arctic Peregrine Falcon (*Falco peregrinus tundrius*) was downlisted from threatened to vulnerable in 1992. Its numbers have increased in the past 20 years.

The American Peregrine Falcon (*Falco peregrinus anatum*) is listed as endangered. Its numbers have increased in the Yukon and Mackenzie Valley of the Northwest Territories. Reintroduction efforts in Alberta and Manitoba to the Maritimes have established about 30 breeding pairs. The *anatum* Peregrine Falcon recovery plan was approved in 1986.

The Spotted Owl (*Strix occidentalis*) is listed as endangered with few pairs known in southern British Columbia. A recovery team has been formed.

The Red-shouldered Hawk (*Buteo lineatus*) is listed as vulnerable. Restricted in its distribution to southern Ontario and Quebec, this species occupies limited forest nesting habitat at the northern edge of its range.

The Great Gray Owl (*Strix nebulosa*) is listed as vulnerable. It occurs throughout the boreal forest, but little is known about its population trends.

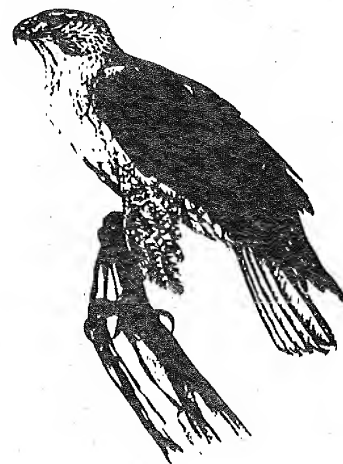
The Burrowing Owl (*Speotyto cunicularia*) is listed as threatened; a recovery team has been at work since 1989. Its numbers

are declining on the prairies, but a small population has been reintroduced into southern British Columbia. This owl's migration route, winter range, and major mortality factors are unknown. The recovery plan was approved in 1992.

The Barn Owl (*Tyto alba*) is listed as vulnerable. Its distribution in Canada is at the northern edge of its North American range, but it occurs in low numbers in southern British Columbia, Ontario, and Quebec.

The Flammulated Owl (*Otus flammeolus*) is listed as vulnerable. This species is at the northern edge of its range in southern British Columbia where it occurs in low numbers.

Ed's note: The last issue of Wingspan included an article on the "federal" status of North American Endangered and Threatened Raptors. We neglected to note that the article concerned only U.S. policies, and we apologize to our colleagues in Canada and Mexico for the oversight.



UPCOMING MEETINGS, SEMINARS, & WORKSHOPS

1993

MARCH 11

NORTHERN GOSHAWK MANAGEMENT WORKSHOP
Madison, Wisconsin

Contact: Charlene Gieck, Bureau of Endangered Resources,
P.O. Box 7921, Madison, WI 53707

MARCH 14 - APRIL 1

WORKSHOP ON CAPTURE, HANDLING, AND MARKING
NORTH AMERICAN EAGLES

Bozeman, Montana

Contact: Montana State University, Office of Extended
Studies, 303 Montana Hall, Bozeman, MT 59717
(406 - 994-6683)

MARCH 19 - 24

58TH NORTH AMERICAN WILDLIFE AND NATURAL
RESOURCES CONFERENCE

Washington, D.C.

Contact: Wildlife Management Institute, Suite 725, 1101 14th
St. NW, Washington, D.C. 20005

APRIL 1 - 4

HAWK MIGRATION ASSOCIATION OF NORTH
AMERICA CONFERENCE #6

Corpus Christi, Texas

Contact: John M. Economidy, (210) 521-7843 or
(210) 692-9658. Send registrations by March 27th to HMANA
Conference, 508 Kelly Bank Tower, 6100 Bandera Rd., San
Antonio, TX 78238-1653.

APRIL 2 - 4

EASTERN BIRD BANDING ASSOCIATION

Painted Post, New York

Contact: Mr. and Mrs. John Forness, 3086 Haskell Rd.,
Cuba, N.Y. 14726-9402 (716- 968-1978)

APRIL 13 - 18

COOPER ORNITHOLOGICAL SOCIETY - CENTENNIAL
MEETING

Sacramento, California

Contact: Michael Morrison, Department of Forest and
Resource Management, Mulford Hall, University of California,

Berkeley, CA 94720.

Phone: (510) 642-

5344 or Jared Verner,

Forestry Sciences

Laboratory, 2081 E.

Sierra Avenue, Fresno, CA 93710. Phone: (209) 487-5588.



APRIL 29 - MAY 1

THE WILSON ORNITHOLOGICAL SOCIETY.

Guelph, Ontario.

Contact: Keith Bildstein, Hawk Mtn Sanctuary, Rt 2,
Kempton, PA 19529 (215 - 756-6961)

JUNE 8 - 13

THE AMERICAN ORNITHOLOGISTS' UNION MEETING
Fairbanks, Alaska

Contact: Edward C. Murphy Institute of Arctic Biology,
University of Fairbanks, AK 99775-0180

JULY 24 - 30

ANIMAL BEHAVIOR SOCIETY

Davis, California

Contact: Benjamin Hart, Dept. Physiology, School of
Veterinary Medicine, Univ. of California, Davis, CA 95616

SEPTEMBER 11 - 15

1ST EUROPEAN MEETING OF THE RAPTOR RESEARCH
FOUNDATION.

Canterbury, England

Contact: Dr. Mike Nicholls, Christ Church College, North
Holmes Road, Canterbury, Kent, CT1,1QU, England

OCTOBER 10 -13

SOUTHEASTERN ASSOCIATION OF FISH AND
WILDLIFE AGENCIES

Atlanta, Georgia

Contact: Timmy B. Hess, Georgia Dept. Natural Resources,
205 Butler St. S.E., Suite 1362, Atlanta, Georgia
(404- 656-3524)

NOVEMBER 3 - 6

RAPTOR RESEARCH FOUNDATION MEETING

Charlotte, North Carolina

Contact: Robert S. Gefaell, Carolina Raptor Center, P.O. Box
16443, Charlotte, NC 28297 (704- 875-6521)

1993 EUROPEAN RRF MEETINGS



The first European meeting of the Raptor Research Foundation will be held 10-15 September 1993 at the University of Kent at Canterbury, England. This meeting will be sponsored by The Hawk and Owl Trust. It is hoped that this will be the first in a series of RRF meetings in Europe, initially at 2-year intervals. The traditional RRF fall meetings will continue to be held each year in North America.

The scientific program will include general sessions on raptors and owls worldwide, and symposia on harriers, "solving human/raptor conflicts," and nest boxes. The symposium on using nest boxes to study owls and hawks: "questions of naturalness versus artificiality" will feature presentations on

European and American kestrel and owl species by investigators from several nations. *F. Gehlbach, Dept. of Biology, Baylor University, Waco, TX 73798* can provide more information on the nest box symposium. Program Coordinator, Dr. Mike Nicholls, invites papers, posters, films, and videos on any aspect of raptor biology, ecology, or management. Offers of general papers and posters should be sent to: *Dr. Nicholls, Christ Church College, North Holmes Road, Canterbury, Kent, CT1, 1QU, England.*

The deadline for registration and abstracts is May 31. Registration forms are available from *Mrs. Sue Dewar, 6 Glenderon Road, Woodley, Reading RG5 4PH England.*

Canterbury is easily reached from London Heathrow and Gatwick Airports. Nearby ferry ports link Kent to the French, Belgian, and Dutch channel ports. The program committee is organizing excursions and guided tours to local sites of ornithological interest (including a trip to Downe House, the home of Charles Darwin). Day trips to France are also easily possible.

The 1994 RRF annual meeting will be in Flagstaff, Arizona. RRF is now soliciting offers to host the 1995 North American meeting, especially from the midwest or eastern U.S., Canada, Mexico, or Central America. Interested parties should contact: *Mike Kochert, BLM RRTAC, 3948 Development Avenue, Boise, ID 83705 (208) 384-3484 or FAX (208) 384-3493.*

1993 RRF ANNUAL MEETING CHARLOTTE, NORTH CAROLINA



The Raptor Research Foundation will hold its 1993 Annual Meeting from Wednesday, November 3 through Saturday, November 6, at the Charlotte City Marriott Center, 100 West Trade Street, Charlotte, N.C. 28202 (704) 333-9000.

Wednesday, November 3 will consist of the Board of Directors meeting, registration, and a no host reception.

The general scientific program and poster sessions will take place between Thursday and Saturday, November 4 to 6. A call for papers will be sent in June. For more information contact: *Keith Bildstein or Laurie Goodrich, Hawk Mountain Sanctuary, Kempton, PA 19529-9449 (215) 756-6961 FAX (215) 756-4468.*

A symposium tentatively entitled "Adaptations of Raptors to Human-Altered Environments" will be held in conjunction with the meeting. Although the majority of presentations will be given by invited speakers, the organizers do not wish to prohibit others from participating. Persons interested in giving a paper focusing on this theme should notify David Bird no later than June 1, 1993. Presently, it is not certain whether there will be a full-day or half-day symposium. Proceedings will likely be published. For more information contact: *David M. Bird, Avian Science and Conservation Centre, Macdonald Campus of McGill University, 21,111 Lakeshore Rd., Ste. Anne de Bellevue, Quebec H9X 3V9 (514) 398-7760; FAX (514) 398-7983.*

Additional events will consist of field trips to the surrounding areas on Friday, November 5; vendor exhibits, movies; and a banquet. For more information on the meeting contact: *Robert S. Gefaell, Carolina Raptor Center, P. O. Box 16443, Charlotte, N.C. 28297 (704) 875-6521 FAX (704) 334-8078.*

RRF AWARDS

AWARDS TO RECOGNIZE SIGNIFICANT LIFETIME CONTRIBUTIONS

The RRF has established 3 awards to recognize individuals who have made significant contributions to the field of raptor biology.

The **Dean Amadon Award** recognizes an individual who has made significant contributions in the field of systematics or distribution of raptors. Contact: *Clayton White, 161 WIDB, Department of Zoology, Brigham Young University, Provo, Utah 84602 USA by 15 August.*

The **Tom Cade Award** recognizes an individual who has made significant advances in the area of captive propagation and reintroduction of raptors. Contact: *Brian Walton, Predatory Bird Research Group, Lower Quarry, University of California, Santa Cruz, CA 95064 USA by 15 August.*

The **Fran and Frederick Hamerstrom Award** recognizes an individual who has contributed significantly to the understanding of raptor ecology and natural history. Contact: *David E. Anderson, Department of Fisheries and Wildlife, 200 Hodson Hall, 1980 Folwell Avenue, University of Minnesota, St. Paul, MN 55108 USA by 15 August.*

The Awards committees rely on members to nominate qualified individuals for each of these 3 awards. Presentations of the Cade and Hamerstrom awards began in 1991. As yet, the Amadon award has not been presented. ■

GRANTS

Raptor biologists can apply for 2 prestigious RRF grants.

The **Leslie Brown Memorial Grant**. In memory of one of the most inspired and productive raptor biologists of recent decades, the Raptor Research Foundation awards this grant, for up to \$1,000, to provide financial assistance to promote the research and/or dissemination of information on birds of prey. Applicants must send a resume, specific study objectives, and account of how funds will be spent, and a statement indicating how the proposed work would relate to other work by the applicant and to other sources of funds. Proposals concerning African raptors will receive highest priority among proposals of otherwise equal merit. A complete application must be received by **15 September**. Proposals, donations, and inquiries about tax-exempt contributions to the fund should be sent to: *Jeff Lincer, Chairman, RRF Leslie Brown Memorial Fund, c/o Biosystems Analysis, Inc., 13220 Evening Creek Drive South, Suite 119, San Diego, Ca 92129 USA.*

The **Stephen R. Tully Memorial Grant** for \$500 is given to support research, management and conservation of raptors, especially by students and amateurs with limited access to alternative funding. The award is given in memory of Steve Tully, a young raptor biologist, who lost his life in an automobile accident in 1978. To apply, contact: *Alan Jenkins, George Miksch Sutton Avian Research Center, Inc., P.O. Box 2007, Bartlesville, OK 74005-2007 USA by 10 September.* ■

PROGRAM

STUDENT RECOGNITION AND TRAVEL ASSISTANCE AWARDS

PAST AWARD RECIPIENTS

Tom Cade Award

1991 - Jim Weaver
1992 - Les Boyd

Fran and Frederick Hamerstrom Award

1991 - Valerie Gargett
1992 - B. Riley McClelland

Leslie Brown Memorial Grant

1986 - Vicky J. Meretsky
1987 - Hilary Welch
1988 - Dr. Robert B. Simmons
Phoebe Barnard
1989 - Gerard Malan
Anthony Van Zyl
1990 - Andrew Jenkins
1991 - John D. Foss
1992 - Kevin McCann
G.E.A. Banfield

Stephen R. Tully Memorial Grant

1986 - Vicky J. Meretsky
1987 - Kelly Hogan
1988 - Gian Basili
1989 - Dale K. Ward
1990 - Cynthia Sills
1991 - Neal D. Niemuth
Keith J. Merkel
1992 - Martha J. Desmond

James R. Koplin Travel Award

1989 - Vanessa M. Dickinson
Gustavo D. Danemann
1990 - Bryan Kimsey
1991 - James R. Duncan
1992 - Laura B. Rivera-Rodriguez

William C. Anderson Memorial Award

1987 - Thomas Hamer
1989 - Gustavo Danemann
1990 - J. Timothy Kimmel
1991 - D. Plumpton
1992 - Kennedy Chandler
Laura Beatriz Rivera-Rodriguez

Two RRF awards are designated for promising students who participate in the Annual Meeting.

The **James R. Koplin Travel Award**. In honor of Dr. James R. Koplin, RRF established an endowment in 1989 to help support the travel of students to annual RRF meetings. Dr. Koplin was a professor of wildlife management at Humboldt State University, in Arcata, California, and had a long-term interest in the study of raptor distribution and abundance. All students are eligible to apply for this award; however, because of Dr. Koplin's interest in Latin American raptors, preference will be given to applicants from the neotropics. Currently, this program consists of a \$100 award. In the future, as the endowment permits, more awards in greater amounts will be provided. Selection of the recipients of this award will be based on the quality of the research conducted, financial need, and professional potential as a raptor biologist.

To be eligible for the James R. Koplin Travel Award, a student must be a member of the Raptor Research Foundation, Inc., and the senior author on a paper to be presented at the meeting for which travel funds are requested.

Application materials include: (1) a three-page (double spaced) description of the research results to be presented at the meeting; (2) an itemized budget of the total cost associated with attending the meeting, accompanied by an

explanation of how the expenses not covered by this award will be met; and (3) a letter of recommendation. This letter is very important in the selection process and should be written by the student's major professor. It should contain a thorough evaluation of the applicant's academic abilities, the significance of the research being reported, his or her contribution to this research, and the potential for future contributions by the student to the field. Each year's deadline will be the date when conference abstracts are due. Send application to: *Michael W. Collopy, Chair, James R. Koplin Travel Award Committee, c/o BLM Cooperative Research Unit, 3200 S.W. Jefferson Way, Corvallis, OR 97331.*

The **William C. Andersen Memorial Award**. This award is given to the student(s) who presents the best oral paper and the best poster exhibit at the RRF Annual Meeting. Presentations are judged by a committee of raptor scientists. To be considered for the award, students must submit four copies of an expanded summary of their paper (approximately three typed pages) in addition to the regular abstract. Deadline will be the same as for regular abstracts. For more information contact: *Keith Bildstein, Hawk Mountain Sanctuary, Rural Route 2, Box 191, Kempton, PA 19529-9449 USA.* ■

ANNOUNCEMENTS

ATTENTION: ALL WINGSPAN SUBSCRIBERS: The Post Office does not forward third class mail. If you have moved and wish to continue receiving *THE WINGSPAN*, please notify Jim Fitzpatrick, RRF Treasurer, of your address change. Jim's address is: 12805 St. Croix Trail, Hastings, Minnesota 55033.

POSITIONS AVAILABLE

The Raptor Center at the University of Minnesota, College of Veterinary Medicine, is seeking a full-time Research Associate to join the staff as toxicologist. Responsibilities will include development of a research program in environmental toxicology that addresses toxicological processes significant to raptors; toxicological assays for in-house evaluation of raptor patients including assay development, validation, implementation, and quality control; training of laboratory personnel; interaction with Raptor Center, collegiate, and interdepartmental faculty and graduate students in the above projects, serving as principal or collaborating investigator; and teaching in the professional veterinary curriculum as well as the graduate programs in Conservation Biology. Applicants must have a doctoral degree in a toxicology-related field. Evidence of participation in and publication of results of avian faunal toxicology, a DVM degree or 2 to 4 years of post-doctoral work in environmental or wildlife toxicology and research are highly desirable. Salary is negotiable based on experience and qualifications. Applicants should submit a curriculum vitae, a transcript of graduate coursework, and three letters of recommendation to: Dr. Patrick Redig, Director, The Raptor Center, 1920 Fitch Ave., St. Paul, MN 55108. Deadline for receipt of applications is April 15, 1993.

Latin American Coordinator. Hawk Mountain Sanctuary plans to produce the first global directory and atlas of key international raptor migration sites. "Hawks Aloft Worldwide", the Sanctuary's raptor atlas migration project, needs a bilingual (Spanish-English) individual with at least a master's degree in conservation biology, wildlife management, or a related biological discipline to coordinate the project's activities in Central and South America. The person filling this position will work closely with Hawk Mountain staff on the project. Principal duties of the position include (1) corresponding with Latin American ornithologists, (2) assembling and summarizing data contributed by scientists, (3) producing descriptions of sites for the atlas, and (4) developing bilingual training materials for project participants in Latin America. Persons familiar with the Latin American ornithological and conservation communities, especially those who have traveled extensively in the region, are encouraged to apply. The 2-year temporary consultancy will begin in the Spring of 1993. For additional information, contact *Keith L. Bildstein, RMAP Director, Hawk Mountain Sanctuary, RR 2, Box 191, Kempton, PA 19529. Phone (215) 756-6961 Fax (215) 756-4468.*

The Washington Department of Natural Resources is recruiting scientific technicians for spotted owl survey work (salary range \$1,578 -

2,286 per month). For information contact: *Diana Hernandez, Dept. of Natural Resources, Employee Services Division, 1111 Washington St. S.E., P. O. Box 47033, Olympia, WA 98504-7033* or call (206) 902-1751 for a recruitment package.

The Raptor Center at the University of Minnesota is seeking a full time education coordinator. This is an annual, renewable appointment. Responsibilities include maintaining the current scope of environmental education activities that reach 84,000 people annually, expanding outreach into regional and national audiences, and overseeing an international professional education program. Applicants must have a bachelor's degree in environmental education or related field and five years progressive management experience in environmental education. Interested applicants should submit a letter of application, resume, and three letters of reference to *Ron Osterbauer, The Raptor Center, 1920 Fitch Avenue, St. Paul, MN 55108*. Application deadline is March 15th. Starting date is expected to be May 1, 1993.

Internship opportunities are available in raptor captive management, rehabilitation, and captive breeding. These are volunteer, no salary, internships, with housing and utilities provided, not board. Send resume and references to *Maggie Bogard, World Bird Sanctuary, P. O. Box 27270, St. Louis, MO 63127* or call (314) 938-6193. Positions are highly competitive, and we will work with individuals on selecting the correct time periods for internships.

Field research internships (3) available for study of habitat selection by nesting Northern Goshawks in Douglas-fir, true fir, and ponderosa

pine communities in northern California, May-Aug/Sep 1993. Duties include surveying for goshawk territories, monitoring 36 known nest sites, assisting with trapping and colormarking, and field verifying satellite imagery. Opportunity to become familiar with GIS, landscape ecology. Work involves extensive hiking in rugged conditions, exposure to extremes of temperature, weird hours and group living. Applicants with experience in mountain driving, use of maps/compass and raptor ID will be preferred. Housing, training, on-the-job transportation, and stipend provided. Send resume and references by 1 April 1993 to *Brian Woodbridge, U.S. Forest Service, Klamath National Forest, 37805 Highway 97, Macdoel, CA 96058*.

Hawk counters/interns needed for migration counts at Cape May and Sandy Hook, NJ: Cape May - 15 Aug-30 Nov; Sandy Hook - 10 Mar-15 May. Stipend and housing provided. Applicants must have hawk identification skills, keep accurate records, and get along with birders. Possible college credit. These hawkwatch internships are an incomparable experience in birding and hawkwatching. Migration at these sites can only be described as spectacular. Send letter, reference, and resume to *Paul Kerlinger, Cape May Bird Observatory, P.O. Box 3, Cape May Point, NJ 08212*. Phone (609) 884-2736.

Wanted: Bald Eagle Observer next to Yellowstone National Park. The U.S. Forest Service, Hebgen Lake Ranger District, in East Yellowstone, MT, needs an assistant observer in a Bald Eagle habitat study on Hebgen Lake and Earthquake Lake, just west of Yellowstone Park. The applicant must be able to work 5-8 hr/day, 4-5 days/week patiently observing Bald Eagle behavior. Limited experience necessary.

Position available May through Nov. Can apply for all or part of the time period. Housing provided and possible \$10/day subsistence. Please mail resume and letter of interest to *J.T. Stangl, 1213 S. Fourth Ave., Bozeman, MT 59715. Phone (406) 585-8886.*

Field technicians (2) needed for an ongoing study of the Boreal Owl in NE Minnesota. Duties include nocturnal censusing of owls, radio monitoring of male owls, habitat evaluation, and behavioral observation at nest sites. Housing and stipend provided. Send resume and names and addresses of 3 references to *Bill Lane, 1531 East 1st St, #4, Duluth, MN 44812. Phone (218) 724-8120.*

Graduate research assistantship. M.S. Raptor Biology, to study breeding biology of Great Horned Owls in Saskatchewan. Will trap adult owls and work closely with a population banded for 25 years. Trapping experience desirable, thesis topic open. Must be available to begin work in April 1993, with graduate program beginning in fall 1993. Stipend of \$8,500/year plus tuition waiver. To apply, send letter of interest, resume, photocopy of transcripts, GPA scores, and 3 letters of reference to *Marc J. Bechard, Raptor Research Center, Dept. of Biology, Boise State University, Boise, Idaho 83725.*

Master's research in raptor biology. Graduate assistantship and project support provided for students interested in research of raptor responses to visual stimuli (e.g., patterns, colors) and of raptor flight behavior. Applicants should have experience in handling and training birds. Research includes laboratory and outdoors work.

For more information or to send resume contact: *Mark Fuller, Raptor Research and Technical Assistance Center, Boise State University, Dept. of Biology, Boise, ID 83725.*

Volunteer translators are needed to translate educational materials on raptors into other languages. The RRF education committee hopes to provide educational materials to groups in "developing" countries where such materials are rare or unavailable. If you can help, contact *Nancy Read, Education Committee Chairperson, c/o Chambers Group, 16700 Aston Street, P.O. Box 57002, Irvine, CA 92619-7002; phone (714) 261-5414 ext. 6180.*

PUBLICATIONS AVAILABLE

● ***Establishing a Nest Box Program for American Kestrels Along the Interstate Highway: Recommendations Based on the Iowa Program*** was written by RRF members Dan Varland, Bruce Ehresman, and by Ron Andrews. This 8-page illustrated booklet was sponsored by the Iowa Department of Transportation and includes information on kestrel natural history, advice on how to establish a kestrel trail, and nest box plans. For your free copy or more information on the program, contact: *Bruce Ehresman, Iowa Department of Natural Resources Nongame Wildlife Program, R.R. 1, Boone, IA 50039, USA. (515) 432-2823.*

● ***Scientific Program*** with abstracts of 151 papers from the 1992 Annual Meeting of the Raptor Research Foundation (General Sessions, Spotted Owl Symposium, and Burrowing Owl Symposium) is available for \$5.00 each, prepaid only and while supplies last. Proceeds will support the Foundation. Make check payable to "Mark Stalmaster -- RRF" and send to *Mark V. Stalmaster, Stalmaster and Associates, 209 23rd Avenue, Milton, WA 98354.*

● **Bald Eagle Winter Management Guidelines**, a 14-page pamphlet written by Mark Martell for U.S. Fish and Wildlife Service Region 3 is now available from Charlene Gieck, Bureau of Endangered Resources, Wisconsin Department of Natural Resources, 101 South Webster Street, Box 7921, Madison, Wisconsin 53707.

● **Forest Fragmentation and Island Biogeography: a Summary and Bibliography** by Rosenfield et al. was published in October 1992 as National Park Service Technical Report 92/08. It is available from the Publications Coordinator, National Park Service, Natural Resources Publication Office, P. O. Box 25287, Denver, Colorado 80225-0287. Disk files of the technical citations are available in Wordperfect and DBase III+ PIMS formats. For disks, contact Regional Chief Scientist, National Park Service, Midwest Regional Office, 1709 Jackson St., Omaha, NE 68102.

NEWS OF MEMBERS

● **JOHN E. COOPER** has been appointed by the Royal Veterinary and Agricultural University, Copenhagen, as Professor in Veterinary Medicine at the Sokoine University, Morogoro, Tanzania, East Africa. His duties there include teaching Animal Health and Avian Medicine, organizing a course in Wildlife Diseases, and supervising research and field projects. He and his wife, Margaret E. Cooper, left for Tanzania on 1 October 1992. They retain their positions as Honorary Research Fellows with the Durrell Institute of Conservation and Ecology (DICE), University of Kent, and while in Tanzania continue to be involved in some of its activities. Their address is: Professor and Mrs. J. E. Cooper, Faculty of Veterinary Medicine, Sokoine University of Agriculture, P.O. Box 1387/P.O. Box 3021, Morogoro, Tanzania. Phone: 010-255-56 4978-80, Telex: UNIVMOG 55308 TZ.

● **CARL MARTI** is the new editor of the *Journal of Raptor Research*. (Josef Schmutz retired at the end of 1992.) All manuscripts to be considered for

publication should be sent to Carl Marti at Department of Zoology, Weber State University, Ogden, Utah 84408-2505. Phone (801) 626-6172, FAX: (801) 626-7445, E-mail: CMARTI@CC.WEBER.EDU.

● **STANLEY N. WIEMEYER** has moved from the Patuxent Wildlife Research Center where he worked as a Research Biologist for 25 years to a position as Resource Contaminant Specialist with the U.S. Fish and Wildlife Service. His new address is: Reno Field Office, 4600 Kietzke Lane, Bldg. C-125, Reno, Nevada 89502. Phone: (702) 784-5227.

REQUESTS FOR INFORMATION

● **Wanted:** observations or information on single parent rearing and mate replacement in Bald Eagles. All contributions will be greatly appreciated and fully acknowledged. Send information to Sherry Teresa, 3228 Windsor Drive, Sacramento, CA 95864-3827.

● For the past 3 autumns, bald eagles have been banded at an autumn concentration in central Montana. Captured eagles were marked with USFWS and color bands (bicolored 1/2 blue, 1/2 silver). Please report any sightings of these eagles noting how each leg was banded, location, and date to either Marco Restani or Al Harmata, Dept. of Biology, Montana State University, Bozeman, MT 59717.

● Gyrfalcons and snowy owls in NE Siberia often suffer broken legs when captured in steel leg-hold traps set for arctic foxes. One trapper reportedly took 300 owls in one winter. Padding jaws on traps is not the ultimate solution because traps are visited only semi-monthly. Anyone knowing of similar problems elsewhere, or more important, practical solutions, or even ideas for field testing are urged to contact Dr. David H. Ellis, USFWS, Patuxent Wildlife Research Center, Merriam Lab., 11510 American Holly Dr., Laurel, MD 20708-4019. Phone (301) 498-0292 or 776-2597.

● **Window-killed Sharp-shinned Hawks needed:** As part of an investigation into a possible decline in northeastern Sharp-shinned Hawk populations, Hawk

Mountain Sanctuary is seeking fresh window-kill specimens from throughout the east for contaminant analyses. Fresh or frozen birds can be used, but fresh are preferred. If you find a dead Sharp-shin, please call *Laurie Goodrich* or *Cathy Viverette immediately at: (215) 756-6961*. Mailing costs will be covered.

● **Ferruginous Hawk nest site locations in Montana wanted.** I am interested in all known ferruginous hawk nests for use in a state synopsis and GIS related project for this species in cooperation with the Montana Natural Heritage Program and the BLM. If you are able to share information, please contact *Eric Atkinson, 4980 E. Baseline Rd., Belgrade, MT 59714. Phone (405) 587-0595*.

● **Educational Materials.** The RRF education committee is compiling a bibliography of printed educational materials and a catalog of audio/visual materials on raptors. For audio-visual materials, we need the title, author/producer, production date, brief summary (50 words or less), type of media, loan/rent/sale policies and prices, and contact name and address. For printed materials, send samples or a complete description (i.e., species and topics covered) to *Nancy Read, Education Committee Chairperson, c/o Chambers Group, 16700 Aston Street, P.O. Box 57002, Irvine, CA 92619-7002*. RRF has a limited budget to pay for copying and distribution of printed materials.

CALLS FOR PAPERS

● **The XXI International Ornithological Congress (IOC)** will be held in Vienna, Austria, from 21-27 August 1994. A Roundtable Discussion is being

organized on "Environmental Change and Disease Transmission from Birds to People and Livestock". The Convenors are J.E. Cooper and J. Pinowski, and some preliminary lectures have already been arranged. This session will look at the disease risk presented to humans and domesticated livestock by changes in the environment. Some of these changes are man-made - for example, irrigation schemes that encourage the establishment of invertebrates such as mosquitos which can transmit important arthropod-borne diseases and changes in agricultural practices that alter the amount of food and cover available for birds and thus bring them into closer contact with humans or animals. Others, however, are "natural" - for instance, outbreaks of botulism associated with drying of lakes, and the spread of invertebrate vectors as climatic changes occur. The lectures will be illustrated, and sets of abstracts and reading lists will be produced beforehand. It is hoped that the papers will be published as a contribution towards a better understanding of this important subject. Further oral presentations are invited for the Roundtable Discussion and offers of posters are also welcome on this subject or others relevant to the themes of the Congress. For more information, contact: *John E. Cooper, Chairman of Working Group, Professor of Veterinary Medicine, Sokoine University of Agriculture, P.O. Box 3021, Morogoro, Tanzania, East Africa*.

● **The 47th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies** issued its first call for papers. The meeting will be hosted by the Georgia Department of Natural Resources and will be held at the Hyatt Regency in Atlanta, October 10-13, 1993. Papers are being solicited on general fisheries, general wildlife, nongame, law enforcement, and information and environmental education. Papers on the impact of human growth and development on natural resources are especially encouraged, because the conference theme will be "The Ecology of Growth and Development". The deadline for submissions is May 1, 1993. For more information contact *Timmy B. Hess (404-656-3524)*.

RECENT THESES ON RAPTORS

● PREY COMPARISON IN THREE NEARCTIC RAPTORS (GOLDEN EAGLES, RED-TAILED HAWKS, AND GREAT HORNED OWLS). *Michael Francis Delate*. M.S. Thesis, Idaho State University.

● RAPTOR UTILIZATION OF POWER LINE RIGHTS-OF-WAY IN NEW HAMPSHIRE. *James E. Denoncour*. M.S. Thesis, University of New Hampshire.

● A THEORETICAL AND EMPIRICAL EVALUATION OF A METHOD OF ESTIMATING AREA OCCUPIED FOR BREEDING WOODLAND HAWKS IN MAINE. *Holly Devaul*. M.S. Thesis, University of Maine (Orono).

● POPULATION STATUS, HABITAT AND NEST-SITE CHARACTERISTICS OF A RAPTOR COMMUNITY IN EASTERN COLORADO. *Douglas Grant Leslie*. M.S. Thesis, Colorado State University.

● RED-TAILED HAWK PREDATION ON SNAKES: THE EFFECTS OF WEATHER AND SNAKE ACTIVITY. *Scott Grothe*. M.S. Thesis, Idaho State University.

THANK YOU TO ALL 1992 RRF CONTRIBUTORS

RRF takes this opportunity to thank the individuals and organizations who made contributions to the Foundation in 1992. All donations, large and small, are greatly appreciated and will help RRF to support research and education projects dealing with raptors.

\$5 - \$25

Arizona Non-Game
Sergio Auguilar
Ursula Banasch
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\$100 - \$249

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Minnesota Falconers
Association*

\$501 - \$1,000

Edison Electric
Institute

New Life Member

Rashad Nssorji

* This contribution was "tagged" by the Board of Directors to go toward the publication of the proceedings from a mini-symposium on falcons.

● **SLIDES NEEDED.** The mandate of the Raptor Research Foundation, Inc. covers not only the birds that we all share our love for, but also the people who study and conserve them. As part of the 1993 RRF conference being held in Charlotte, North Carolina, November 3-6, 1993, I would like to make a brief presentation at the annual banquet using slides depicting our membership "hard at work". Naturally, the more comical the slide, the better. I can assure you that your slides will be returned unharmed. Feel free to add your own caption. Make sure that the person(s) is/are identified. Here's your chance for revenge! Depending on the response, I reserve the right to limit the number. The deadline is the conference itself. If the response is poor, then there will be no presentation. Send your slides to *David M. Bird, Avian Science and Conservation Centre, Macdonald Campus of McGill University, 21,111 Lakeshore Rd., Ste. Anne De Bellevue, Quebec H9X 3V9.*

● **WANTED: BINOCULARS AND FIELD GUIDES.** The RRF Education Committee needs 15 pairs of binoculars to assist the *Veracruz Migration Project*, a research and educational program in a critical hawk migration corridor of Mexico. If you are upgrading your equipment, or just have an extra pair of binoculars lying around, please consider donating them to this worthwhile project. Field guides (*Mexican Birds and Hawks in the Peterson series*) are also needed. Please contact *Nancy Read, Education Committee Chairperson, c/o Chambers Group, 16700 Aston Street, P.O. Box 57002, Irvine, CA 92619-7002; phone (714) 261-5414 ext. 6180.* The RRF Education Committee also hopes to expand its program to assist other groups in developing countries that need equipment or materials, so please contact Nancy if you know of such a group.

WINGSPAN CONTRIBUTIONS

The *Wingspan* editorial staff welcomes contributions from RRF members and others interested in raptor biology and management. Announcements of job openings, grants, meetings, and available publications as well as news of members and requests for information should be sent or faxed to Karen Steenhof, Editor, BLM -RRTAC, 3948 Development Avenue, Boise, Idaho 83705 (FAX 208-384-3493). The deadline for the next newsletter will be 1 August 1993. If you intend to submit more than a paragraph, please notify the editor by 15 July so that space can be reserved.

THE WINGSPAN

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